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(71) Applicant (for all designated States except US): NUTRICEPTS, INC. [US/US]; 2208 East 117th Street, Burnsville, MN 55337 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): CATER, Mark, W. [US/US]; 10430 White Tail Crossing, Eden Prairie, MN 55347 (US). GRINDSTAFF, Donald, A. [US/US]; 169 Chaparral Drive, Apple Valley, MN 55124 (US).

(74) Agents: STEMPKOVSKI, Richard, C. et al.; Nawrocki, Rooney & Sivertson, P.A., Suite 401, Broadway Place East, 3433 Broadway Street Northeast, Minneapolis, MN 55413 (US).

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- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations JP, European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR)
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(54) Title: OXYGEN SCAVENGING SYSTEM

(57) Abstract: The oxygen scavenging system of the subject invention contemplates a composition, system and appurtenant methodology for substantially eliminating elemental oxygen from packaged oxygen sensitive products. The composition or scavenging agent includes an oxidoreductase enzyme, a suitable energy source or substrate for the enzyme, and a buffer. The composition binds oxygen when exposed to moisture, thereby reducing the level of oxygen in a closed (e.g., sealed) space such as a food package or the like. More particularly and preferably, the composition includes glucose oxidase in an amount of between 1 and 100 activity units (U) per gram, catalase in an amount of between 1 and 300 activity units (U) per gram, dextrose in an amount of between about 20 and 99 percent by weight, and sodium bicarbonate in an amount of between about 1 and 80 percent by weight.